

U.S. ARMY ROCK ISLAND ARSENAL - JOINT MANUFACTURING & TECHNOLOGY CENTER

ACHIEVEMENTS

- Saved Total of \$5.2 Million (FY05)
- Redeployed \$252,000 Personnel (FY05)
- Reduced Lost Time due to Injuries by 49% (FY06)
- Resolved >100 Safety/Ergonomic Issues
- Reduced Flow Time by 126 Days
- Shortened Travel Distance by 15 Miles
- Freed up 34,000 Sq Ft of Floor Space
- Eliminated >60 Forms
- Reduced FRS Hours by 19.1%
- Reduced SECM Hours by 18.4%
- Reduced Min/Unit on Gages by 62.2%

RECOGNITIONS/CERTIFICATIONS

- Recipient of 2006 Public Sector Shingo Award Gold Level (Forward Repair System Value Stream)
- Recognized by Army Materiel Command (AMC) Safety Rapid Review Team (SRRT) for 8 Safety Best Practices
- Registered to ISO 9001:2000 Quality Standard
- Certified under Contractor Performance Certification Program (CP2)
- Recipient of Multiple Army Communities of Excellence (ACOE) Awards
- Finalist under Presidential Quality Award Program
- Recognized by Best Manufacturing Practices Center of Excellence for Multiple Best Practices

SAFETY

- Injury Rate Consistently below Industry Standard
- 25 Safety Bulletin Boards Provide Safety Information and Statistics to Specific Cost Centers
- Safety Collateral Duty Program (Cooperative Effort between Management and Unions) Ensures Safe and Healthful Workplace is Maintained

PEOPLE

RIA-JMTC has invested substantially in its most valuable resource: our people. We have contracted with a consultant to provide process-based leadership training to our entire work force. This training teaches team building concepts that ensure consistent and unimpaired communication between leadership and employees at all levels. It also focuses on measurement and continual improvement. Communication and measurement techniques learned from the training and employed by our work force include standardized team meetings to facilitate communication, action registers to accountability for assigned actions, and scorecards to monitor performance and drive improvement.

RIA-JMTC is committed to Lean/Six Sigma, and leadership provides the example for all to follow. We have 9 Black Belts and 27 Green Belts, with aggressive plans to nearly double those numbers over the next FY. We also have a dedicated Lean Core Team, comprised of 12 permanent and 3 rotational (annual) positions. This team provides training and maintains continuity during our Lean events.

RIA-JMTC is comprised of approximately 1,300 employees. The American Federation of Government Employees (AFGE) bargaining unit represents our union employees. An emphasis on safety, quality, and world class practices is inculcated to our people in every aspect of training and execution. This includes our Apprentice program, one of the oldest still operating in the country, and our Continuous Improvement in Safety Performance (CISP) program, which has raised the bar for pro-active accident prevention in an industrial environment.

PROCESSES

RIA-JMTC has maintained a continuous focus on the application of world class manufacturing and continuous improvement techniques. While embracing Army Values, we have incorporated Best Manufacturing Practices, achieved CP2 certification and ISO 9001:2000 registration, and employed the principles of Lean and Six Sigma.

Today, with the support of our contractor sensei, we are actively engaged in applying Lean principles on all of our programs, to varying degrees, including developmental programs. Our Forward Repair System (FRS) value stream has been the primary benefactor of our Lean efforts to date, with the establishment of a focused factory and an Integrated Product Team dedicated to ensuring the success of the program.

RIA-JMTC is the only DoD, vertically integrated

manufacturing facility, and our foundry is the last remaining in the Army. The capabilities we possess today were structured to sustain our status as the premiere artillery provider for the joint U.S. ground forces, but we are flexible and can redirect to support any metal manufacturing mission within the equipment envelope. Our current capabilities include: foundry, fabrication, welding, plating, heat treatment, forging, non-destructive testing, tool and die making, extensive machining (small gage grinders to large 7axis machining centers), painting, assembly, testing (to include large caliber hydraulic simulation acceptance testing), packaging, storage, and worldwide shipping. RIA-JMTC also has a well-trained workforce, including skilled trades people; product, process, and material engineering personnel; and a dedicated support staff.

PRODUCTS

While an Army installation and Command, RIA-JMTC is truly a Joint Services Provider for most of the end items and components we produce. Major programs include:

- Towed Artillery
 - o M119 105mm Towed Howitzer
 - o Spare/repair components and assemblies
 - o Surge overhaul and reset
- Self-Propelled and Tank Artillery
 - o M256 Gun Mount (M1 Abrams main gun)
 - o M183 Gun Mount (Paladin main gun)
 - o Spare/repair components and assemblies
 - o Surge and Foreign Military Sales (FMS) overhaul
 - o XM360 Prototype Gun Mount
- Mobile Maintenance Systems
 - o Forward Repair System (Shingo Prize Focus)
 - o Common 30 (U.S.M.C.)
 - o Shop Equipment Contact Maintenance System
 - o Body Explosive Ordnance Disposal System
 - o Petroleum Quality Analysis System

Artillery Programs

RIA-JMTC is the only domestic source for hydropneumatic recoil systems and has been involved in the prototype, development, and production of all U.S. designed, towed howitzers to date. We were recently awarded a mission to again build M119 Howitzers, due to our reputation and expertise in previously building the system. RIA-JMTC is also the sole source of supply for most spare and repair components for towed and self-propelled howitzer systems.

Mobile Maintenance Systems

RIA-JMTC has established itself as provider of choice for High Mobility Multipurpose Wheeled Vehicle (HMMWV) mounted systems over the last decade. Our development and production of several of these systems has demonstrated our prowess as a high quality, cost effective source. The FRS is a flat rack mounted system utilizing the Load Handling System found on the Palletized Load System (PLS) and Heavy Expanded Mobility Tactical Truck (HEMTT). The systems in this category have been produced to both technical data and performance specifications, demonstrating our flexible engineering and production capabilities. Most of our maintenance platforms are used by the Joint Services, while some adaptations have been developed for specific branches.

FACILITY/PLANT

RIA-JMTC is part of Tank-Automotive, Armaments Command (TACOM) Life Cycle Management Command (LCMC), which is a major subordinate command of AMC and is located at Rock Island Arsenal, an Installation Management Agency (IMA) installation, in Rock Island, Illinois.

With more than 1.5 million sq ft of manufacturing space and 750,000 sq ft of packaging, shipping, and storage space, we utilize Lean manufacturing principles and practices to produce artillery systems, small arms components and accessories, and mobile maintenance systems to support Joint Services, ground combat systems.

CONTACT INFORMATION

For additional information, please contact:

Nancy I. Toohill

Executive Officer, U.S. Army Rock Island Arsenal – Joint Manufacturing and Technology Center 1 Rock Island Arsenal (ATTN: AMSTA-RI-MS)

Rock Island, IL 61299-5000

Phone: 309-782-6245; Fax: 309-782-7527 E-mail: Nancy.Toohill@us.army.mil

Or

Gale L. Smith

Public Affairs Officer, U.S. Army Garrison – Rock Island Arsenal

1 Rock Island Arsenal (ATTN: AMSTA-RI-GM-PA)

Rock Island, IL 61299-5000

Phone: 309-782-7746; Fax: 309-782-6782 E-mail: Gale.Lynne.Smith@us.army.mil